

Java Fundamentals

Spring AU 2021

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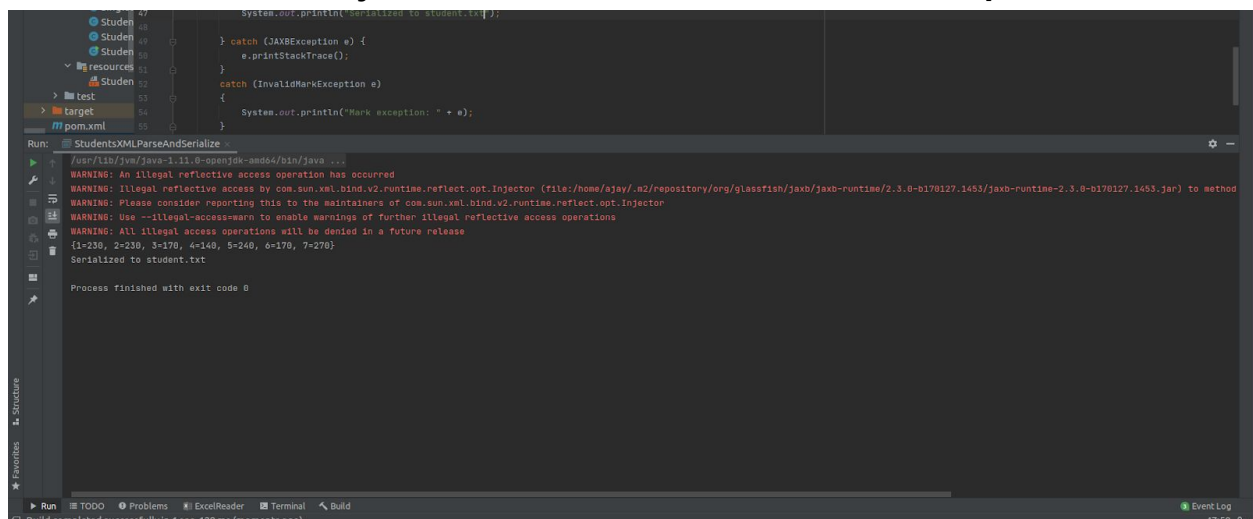
Code has been added as a separate folder:

Java 11 - throws warning while using JAXB

IDE: IntelliJ Community 2020.3

Screenshots:

1. XML to Java Objects and Print total marks as HashMap



2. Deserialize and store to “rank.csv”

```
13 public List<Printer> Integer, Integer> deserializeAndStoreRankAnd RollTotalMarks() throws IOException {
14     HashMap<Integer, Integer> rollTotalMarks = null;
15
16     FileInputStream fileInputStream = new FileInputStream(fileName);
17     ObjectInputStream objectInputStream = new ObjectInputStream(fileInputStream);
18
19     rollTotalMarks = (HashMap<Integer, Integer>) objectInputStream.readObject();
20     objectInputStream.close();
21 }
```

Run: DeserializeAndPrint

```
/usr/lib/jvm/java-11.0-openjdk-amd64/bin/java ...
```

Rank Roll number Total Marks(300)

1	7	270
2	5	240
3	1	230
4	2	230
5	3	170
6	6	170
7	4	160

[7=270, 5=240, 1=230, 2=230, 3=170]
Data of 1 - 5 ranks has been written to rank.csv
Process finished with exit code 0

3. rank.csv

File Explorer:

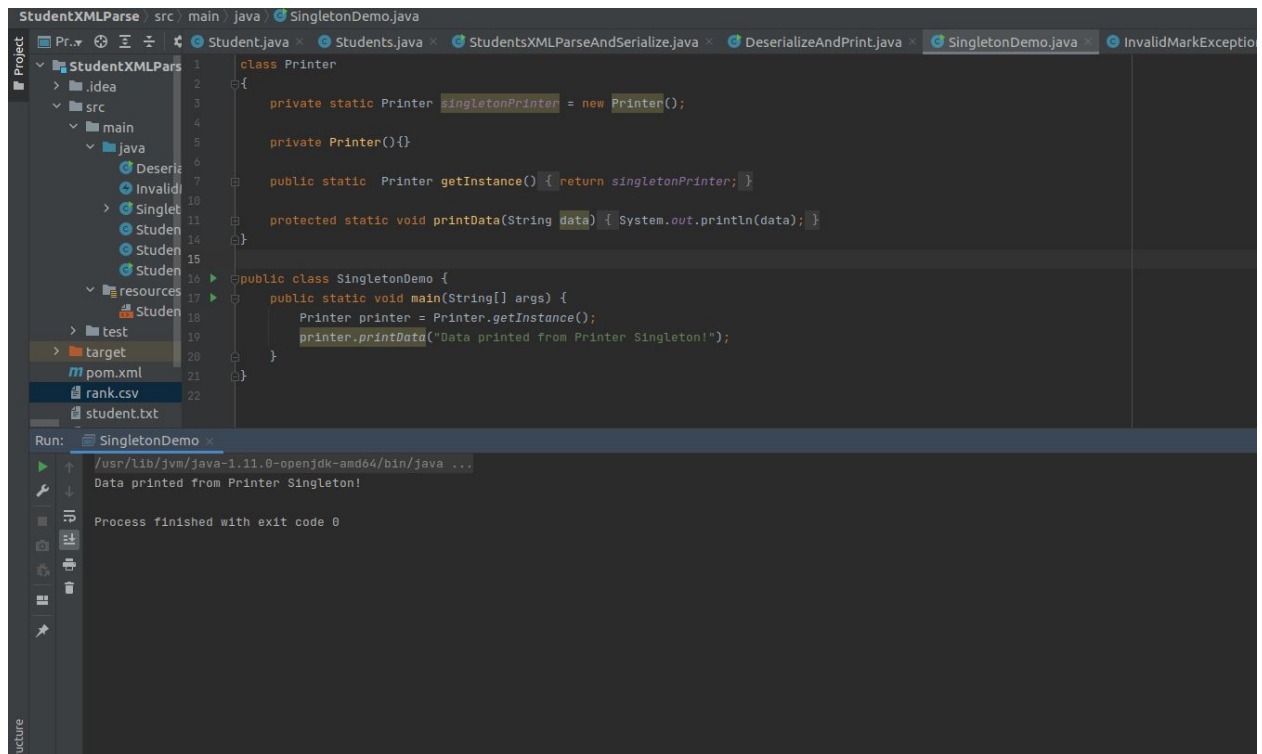
- test
- target
- pom.xml
- rank.csv
- student.txt

ExcelReader

All Column

Rank	Roll Number	Total Marks(300)
1	7	270
2	5	240
3	1	230
4	2	230
5	3	170

4. Singleton Implementation (Printer)



5. Causing exception in XML with faulty value

Custom exception: **InvalidMarkException**

